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Office Memorandum · united states government

TO :	The Files	ī	DATE: 9 November 1956	
FROM :				25
SU BJECT :	Trip Report - Contr	ract RD-107, Task Order 3		
	On 25 October 1956,	a meeting was held at to discuss prograte the meeting were:	ress on the	25 25
				25
were per and a re and a di antenna at 60 Mi impedant ferrite while the antenna a T.V. if equal to	has yielded conflicting and the conflicting and the confliction of the confliction. When the confliction of	ied that preliminary testing of ing results. Tests by ald in which a signal generator if ield strength meter. The feetiving antennas and this test below a dipolects 200 Mc. to 40 of error in this test include it ms from the transmission line (because the ferrite uses the extric field), and less than of the ferrite antenna and dipoles the measured, the ferrite yields in the twin lead was up in the twin lead itself.	group r fed a dipole errite antenna yielded ferrite d below a dipole ferrite antenna affecting the magnetic field ptimum ferrite were connected to ed sensitivities	25 25
mission	ed on the ferrite alor line with a wideband stenna pattern, impede	ting the ferrite antenna. The without crystal and matched balun. The test program will mee, and frequency response free performed in an open field	into the trans- determine the rom 50 to 250	25
the	screen room will no	ot be completed in time. If to to 250 megacycles band is be	eels that running	25X
of the case as an extended that case	original contract and etension to the contra	they have declined to bid on a act. They feel that the work is in a research laboratory. The	running the tests is not the type	25X1
4.	Two types of broadba	and antennas were considered, or which was delivered on 11 Oct	one containing tober 1956, and	
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one containing a single ferrite rod. Sensitivity measurements indicated that the single ferrite antenna was the more sensitive and it will therefore be the design delivered.

- 5. Five broadband antennas of the single ferrite type were delivered to the writer on 25 October 1956. It is expected that all other deliverable antennas will have been shipped by 12 November 1956.
- of this task order.

 stated that there had been no increase in cost or scope of this task order as of that date.

 was told that it was not necessary to supply instruction books or individual calibration curves on the tunable antennas.

 was asked not to put the impedance matching transformer in the wideband unit.

7. The attached response characteristic on one of the wideband ferrites show that in a horizontally polarized field there is very little difference between vertical and horizontal position of the ferrite antenna. In this curve the ordinate is "db below some arbitrary reference". It shows that "suck-outs" in the response curve are only one or two db deep. This is a preliminary test and may be superseded by the results of the later test program.

8. The suggestion of using the ferrite as a non-linear impedance so that CW or FSK signals may be detected on a crystal video receiver was discussed with He promised to look into the matter.

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Attachment as stated in Paragraph 7

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